

# QCBU / QCBUS BUTTON-LOCKING PINS



Stainless Steel

Heat resistance: 180°C



★Key Point

Secure clamping with wedge



**QCBU**  
(Standard)



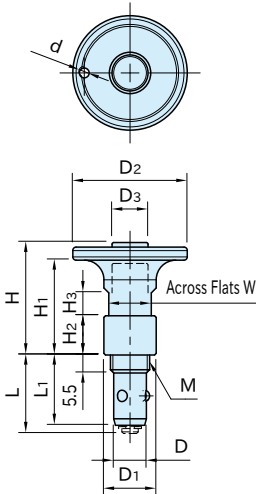
**QCBU-SUS**  
(Stainless Steel)



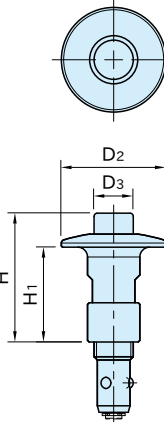
**QCBUS**  
(Cylindrical)



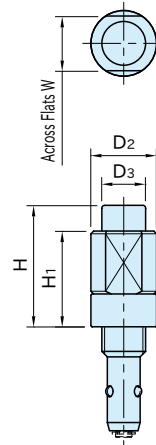
**QCBUS-SUS**  
(Cylindrical, Stainless Steel)



**QCBU**



**QCBU-SUS**



**QCBUS**

**QCBUS-SUS**

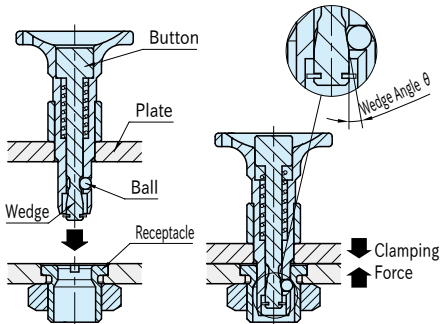
Part Number	Body	Button	Ball	Coiled Spring	Snap Ring	O-Ring
<b>QCBU</b>	0608-10 S45C steel	S45C steel	Electroless nickel plated	SUS440C stainless steel	SUS304WPB stainless steel	FKM fluororubber
<b>QCBUS</b>	1012-16 Electroless nickel plated					—
<b>QCBU-SUS</b>	0608-10 SUS303	SUS420J2 stainless steel	Quenched and tempered	Quenched and tempered	Stainless steel	FKM fluororubber
<b>QCBUS-SUS</b>	1012-16 stainless steel					—

Part Number	Proper Plate Thickness	D ( $\begin{smallmatrix} -0.05 \\ -0.10 \end{smallmatrix}$ )	M	D <sub>1</sub>	L	L <sub>1</sub>	H <sub>2</sub>	W	Clamping Force(N)	Proper Receptacles	
<b>QCBU</b>	0608-10	6~10	6	M 8×1.25	12	21	19	6	10	30	QCBU0608-M12
<b>QCBUS</b>											QCBU0608-M12SUS
<b>QCBU-SUS</b>	1012-16	6~16	10	M12×1.5 (Fine Thread)	16	23.5	21.5	12	13	50	QCBU1012-M16
<b>QCBUS-SUS</b>											QCBU1012-M16SUS

QCBU (Standard)								QCBU-SUS (Stainless Steel)						
Part Number	D <sub>2</sub>	D <sub>3</sub>	H	H <sub>1</sub>	H <sub>3</sub>	d	Weight (g)	Part Number	D <sub>2</sub>	D <sub>3</sub>	H	H <sub>1</sub>	H <sub>3</sub>	Weight (g)
QCBU0608-10	25	8	22	18	5.5	—	30	QCBU0608-10-SUS	23	8	26	18	5.5	30
QCBU1012-16	35	11	34.5	29	7	3	75	QCBU1012-16-SUS	32	12	39.5	29	7	75

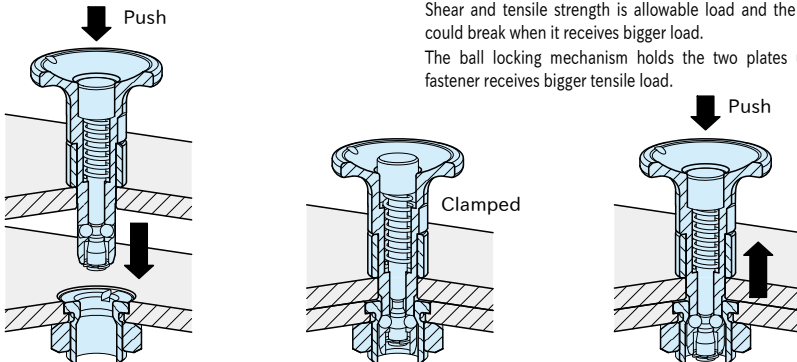
QCBUS (Cylindrical)							QCBUS-SUS (Cylindrical, Stainless Steel)						
Part Number	D <sub>2</sub>	D <sub>3</sub>	H	H <sub>1</sub>	H <sub>3</sub>	Weight (g)	Part Number	D <sub>2</sub>	D <sub>3</sub>	H	H <sub>1</sub>	H <sub>3</sub>	Weight (g)
QCBUS0608-10	12	8	22	17.5	11.5	30	QCBUS0608-10SUS	12	8	22	17.5	11.5	30
QCBUS1012-16	16	11	34.5	28	16	50	QCBUS1012-16SUS	16	11	34.5	28	16	50

### Feature



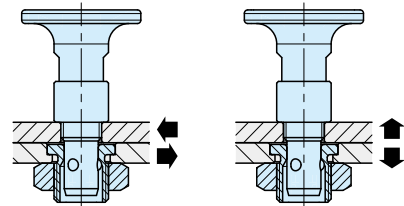
The wedge of the locking pin pushes out the ball onto the taper of the receptacle, for clamping of the two plates.

### How To Use



1. Insert the pin pressing the button.
2. When the button is released, plates are clamped.
3. For removal, pull out the pin pressing the button.

### Technical Information



Part Number		Heatresistant Temperature (°C)	Shear Strength (N)	Tensile Strength (N)
QCBU	0608-10	180	3000	500
QCBUS				
QCBU-SUS	1012-16		9000	1500
QCBUS-SUS				

Shear and tensile strength is allowable load and the fastener could break when it receives bigger load. The ball locking mechanism holds the two plates until the fastener receives bigger tensile load.

### QCBU-M BALL-LOCK RECEPTACLES



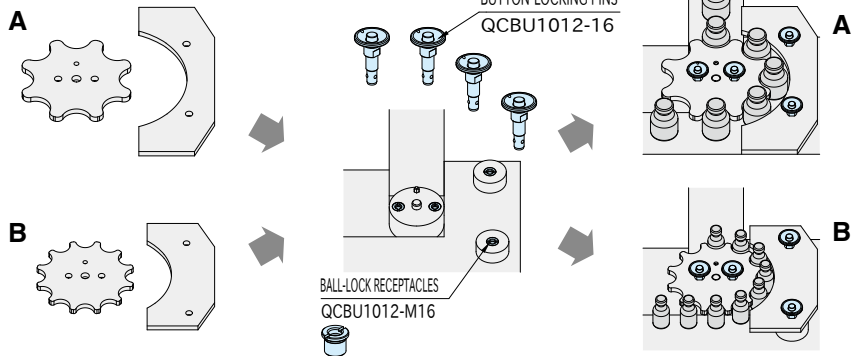
### Note

For cylindrical types, prepare handles or knobs separately to facilitate the operation. Use of cylindrical type requires handles or knobs separately to operate the product properly.

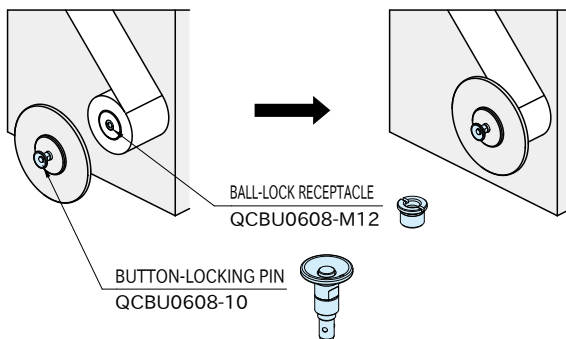
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## Application Example

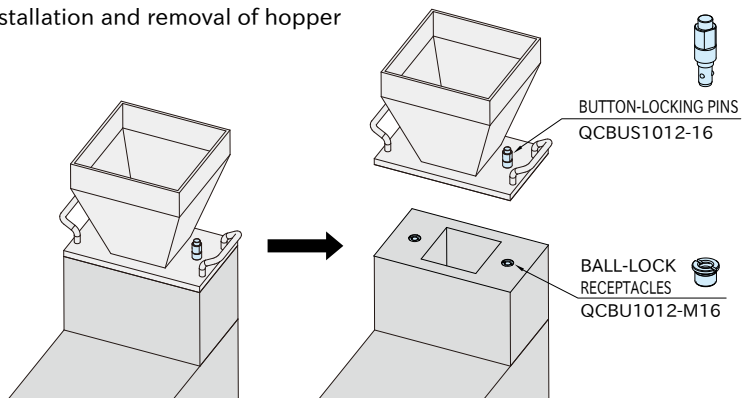
### Changes of star wheels and guide plates



### Installation and removal of stopper plate for rolls

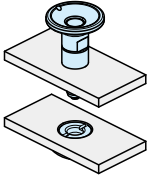


### Installation and removal of hopper



## How To Install

### Fixed Installation



Part Number		Proper Plate Thickness	Figure	M	d <sub>2</sub>
QCBU	0608-10	6	A	M 8×1.25	—
		Over 6, 10 or less	B		13
QCBUS-SUS	1012-16	6	A	M12×1.5 (Fine Thread)	—
		Over 6, 16 or less	B		17

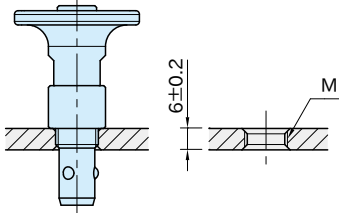


Figure A

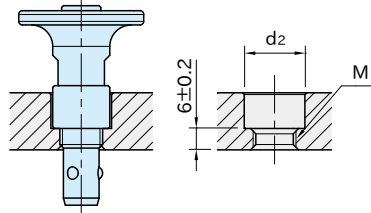
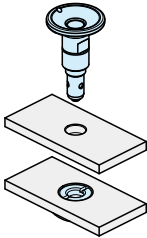


Figure B

### Unfixed Installation (Except QCBUS QCBUS-SUS type)



Part Number		Proper Plate Thickness	Figure	d <sub>1</sub> ( <sup>+0.1</sup> / <sub>0</sub> )	d <sub>2</sub>
QCBU	0608-10	6	C	8	—
		Over 6, 10 or less	D		13
QCBUS-SUS	1012-16	6	C	12	—
		Over 6, 16 or less	D		17

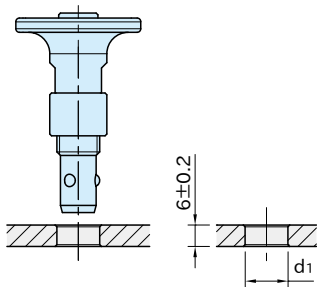


Figure C

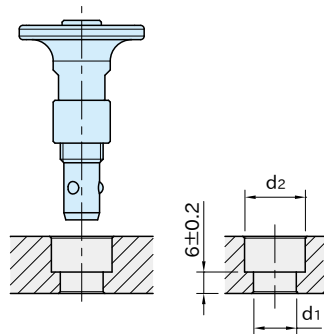
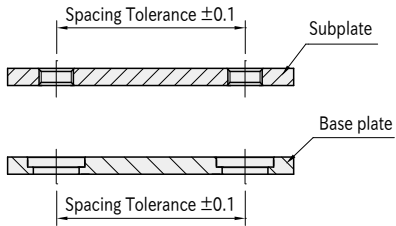


Figure D

## Accuracy

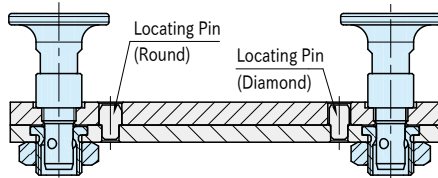
### ■ Machining Accuracy



Spacing tolerance on both the subplate and the base plate should be  $\pm 0.1$ .

### ■ Repeatability

Repeatability is  $\pm 0.25$  for both fixed and unfixed installations.



For higher accurate locating, use locating pins.